

NOTICE OF INTENT

Department of Environmental Quality
Office of Environmental Assessment
Environmental Planning Division

RCRA Cluster XIII
(LAC 33:V.105, 2223, 2299.Table 2, and 4139) (HW085*)

Under the authority of the Environmental Quality Act, R.S. 30:2001 et seq., and in accordance with the provisions of the Administrative Procedure Act, R.S. 49:950 et seq., the secretary gives notice that rulemaking procedures have been initiated to amend the Hazardous Waste regulations, LAC 33:V.105, 2223, 2299.Table 2, and 4139 (Log #HW085*).

This proposed rule is identical to federal regulations found in 67 FR 48393-48415, July 24, 2002, and 67 FR 62618-62624, October 7, 2002, which are applicable in Louisiana. For more information regarding the federal requirement, contact the Regulation Development Section at (225) 219-3550 or Box 4314, Baton Rouge, LA 70821-4314. No fiscal or economic impact will result from the proposed rule; therefore, the rule will be promulgated in accordance with R.S. 49:953(F)(3) and (4).

The proposed rule represents rules required for state adoption and authorization for RCRA Cluster XIII. This rule will allow the state of Louisiana to request authorization for the National Treatability Variance (adopted by EPA October 7, 2002) from the Land Disposal Restrictions (LDR) treatment standards for radioactively contaminated cadmium-, mercury-, and silver-containing batteries by designating new treatment subcategories for these wastes. Macroencapsulation is designated as the required treatment prior to land disposal for the new waste subcategories. Also, this rule will ensure more consistent regulatory framework for the practice of making zinc fertilizer products from recycled hazardous secondary materials. This rule establishes conditions for excluding hazardous secondary materials used to make zinc fertilizers from the regulatory definition of solid waste. The rule also establishes new product specifications for contaminants in zinc fertilizers made from those secondary materials. Adoption of regulations is a requirement for the state to request authorization for RCRA Cluster XIII and to maintain delegation of the Hazardous Waste program. The basis and rationale for this rule are to mirror the federal regulations and to obtain authorization of the RCRA program.

This proposed rule meets an exception listed in R.S. 30:2019(D)(2) and R.S. 49:953(G)(3); therefore, no report regarding environmental/health benefits and social/economic costs is required. This proposed rule has no known impact on family formation, stability, and autonomy as described in R.S. 49:972.

A public hearing will be held on July 26, 2004, at 1:30 p.m. in the Galvez Building, Oliver Pollock Conference Room C111, 602 N. Fifth Street, Baton Rouge, LA

70802. Interested persons are invited to attend and submit oral comments on the proposed amendments. Should individuals with a disability need an accommodation in order to participate, contact Judith A. Schuerman, Ph.D., at the address given below or at (225) 219-3550. Free parking is available across the street in the Galvez parking garage when the parking ticket is validated by department personnel at the hearing.

All interested persons are invited to submit written comments on the proposed regulation. Persons commenting should reference this proposed regulation by HW085*. Such comments must be received no later than July 26, 2004, at 4:30 p.m., and should be sent to Judith A. Schuerman, Ph.D., Office of Environmental Assessment, Environmental Planning Division, Regulation Development Section, Box 4314, Baton Rouge, LA 70821-4314 or to FAX (225) 219-3582 or by e-mail to judith.schuerman@la.gov. The comment period for this rule ends on the same date as the public hearing. Copies of this proposed regulation can be purchased by contacting the DEQ Public Records Center at (225) 219-3168. Check or money order is required in advance for each copy of HW085*.

This proposed regulation is available for inspection at the following DEQ office locations from 8 a.m. until 4:30 p.m.: 602 N. Fifth Street, Baton Rouge, LA 70802; 1823 Highway 546, West Monroe, LA 71292; State Office Building, 1525 Fairfield Avenue, Shreveport, LA 71101; 1301 Gadwall Street, Lake Charles, LA 70615; 201 Evans Road, Building 4, Suite 420, New Orleans, LA 70123; 111 New Center Drive, Lafayette, LA 70508; 110 Barataria Street, Lockport, LA 70374 or on the Internet at <http://www.deq.louisiana.gov/planning/regs/index.htm>.

Wilbert F. Jordan, Jr.
Assistant Secretary

Title 33
ENVIRONMENTAL QUALITY
Part V. Hazardous Waste and Hazardous Materials
Subpart 1. Department of Environmental Quality—Hazardous Waste

Chapter 1. General Provisions and Definitions

§105. Program Scope

These rules and regulations apply to owners and operators of all facilities that generate, transport, treat, store, or dispose of hazardous waste, except as specifically provided otherwise herein. The procedures of these regulations also apply to the denial of a permit for the active life of a hazardous waste management facility or TSD unit under LAC 33:V.706. Definitions appropriate to these rules and regulations, including *solid waste* and *hazardous waste*, appear in LAC 33:V.109. Those wastes ~~which~~ that are excluded from regulation are found in this Section.

A. - D.1.r.ii. ...

s. spent caustic solutions from petroleum refining liquid treating processes used as a feedstock to produce cresylic or naphthenic acid, unless the material is placed on the land or *accumulated speculatively*, as defined in LAC 33:V.109;

t. hazardous secondary materials used to make zinc fertilizers, provided that the following conditions are satisfied:

i. hazardous secondary materials used to make zinc micronutrient fertilizers must not be *accumulated speculatively*, as defined in LAC 33:V.109;

ii. generators and intermediate handlers of zinc-bearing hazardous secondary materials that are to be incorporated into zinc fertilizers must:

(a). submit a one-time notice to the Office of Environmental Services, Permits Division, that contains the name, address, and EPA ID number of the generator or intermediate handler facility, provides a brief description of the secondary material that will be subject to the exclusion, and identifies when the manufacturer intends to begin managing excluded, zinc-bearing hazardous secondary materials under the conditions specified in this Subparagraph;

(b). store the excluded secondary material in tanks, containers, or buildings that are constructed and maintained in a way that prevents releases of the secondary materials into the environment. At a minimum, any building used for this purpose must be an engineered structure made of non-earthen materials that provide structural support and must have a floor, walls, and a roof that prevent wind dispersal and contact with rainwater. Tanks used for this purpose must be structurally sound and, if outdoors, must have roofs or covers that prevent contact with wind and rain. Containers used for this purpose must be kept closed except when it is necessary to add or remove material and must be in sound condition. Containers that are stored outdoors must be managed within storage areas that:

(i). have containment structures or systems sufficiently impervious to contain leaks, spills, and accumulated precipitation;

(ii). provide for effective drainage and removal of leaks, spills, and accumulated precipitation; and

(iii). prevent run-on into the containment system;

(c). with each off-site shipment of excluded hazardous secondary materials, provide written notice to the receiving facility that the material is subject to the conditions of this Subparagraph;

(d). maintain, at the generator's or intermediate handler's facility, for no less than three years, records of all shipments of excluded hazardous secondary materials. For each shipment these records must, at a minimum, contain the following information:

(i). the name of the transporter and the date of the shipment;

(ii). the name and address of the facility that received the excluded material and documentation confirming receipt of the shipment; and

(iii). the type and quantity of excluded secondary material in each shipment;

iii. manufacturers of zinc fertilizers or zinc fertilizer ingredients made from excluded hazardous secondary materials must:

(a). store excluded hazardous secondary materials in accordance with the storage requirements for generators and intermediate handlers, as specified in Subclause D.1 t.ii.(b) of this Section;

(b). submit a one-time notification to the Office of Environmental Services, Permits Division, that at a minimum, specifies the name, address, and EPA ID number of the manufacturing facility and identifies when the manufacturer intends to begin managing excluded, zinc-bearing hazardous secondary materials under the conditions specified in this Subparagraph;

(c). maintain, for a minimum of three years, records of all shipments of excluded hazardous secondary materials received by the manufacturer that must, at a minimum, identify for each shipment the name and address of the generating facility, the name of the transporter, the date the materials were received, the quantity received, and a brief description of the industrial process that generated the material; and

(d). submit to the Office of Management and Finance, Financial Services Division, an annual report that identifies the total quantities of all excluded hazardous secondary materials that were used to manufacture zinc fertilizers or zinc fertilizer ingredients in the previous year, the name and address of each generating facility, and the industrial processes from which they were generated;

iv. nothing in this Section preempts, overrides, or otherwise negates the provision in LAC 33:V.1103 that requires any person who generates a solid waste to determine if that waste is a hazardous waste; and

v. interim status and permitted storage units that have been used to store only zinc-bearing hazardous wastes prior to the submission of the one-time notice described in Subclause D.1.t.iii.(b) of this Section, and that afterward will be used only to store hazardous secondary materials excluded under this Subparagraph, are not subject to the closure requirements of LAC 33:V.Chapters 9, 15, 17, 19, 21, 23, 25, 27, 28, 29, 31, 32, 33, 35, 37 and 43;

u. zinc fertilizers made from hazardous wastes or hazardous secondary materials that are excluded under this Paragraph, provided that:

i. the fertilizer meets the following contaminant limits:

(a). for metal contaminants:

<u>Constituent</u>	<u>Maximum Allowable Total Concentration in Fertilizer, per Unit (1%) of Zinc (ppm)</u>
<u>Arsenic</u>	<u>0.3</u>
<u>Cadmium</u>	<u>1.4</u>
<u>Chromium</u>	<u>0.6</u>
<u>Lead</u>	<u>2.8</u>
<u>Mercury</u>	<u>0.3</u>

(b). for dioxin contaminants, the fertilizer must contain no more than 8 parts per trillion of dioxin, measured as toxic equivalent (TEQ);

ii the manufacturer performs sampling and analysis of the fertilizer product to determine compliance with the contaminant limits for metals no less than every 6 months, and for dioxins no less than every 12 months. Testing must also be performed whenever changes occur to manufacturing processes or ingredients that could significantly affect the amounts of contaminants in the fertilizer product. The manufacturer may use any reliable analytical method to demonstrate that no constituent of concern is present in the product at a concentration above the applicable limit. It is the responsibility of the manufacturer to ensure that the sampling and analysis are unbiased, precise, and representative of the products introduced into commerce; and

iii the manufacturer maintains, for no less than three years, records of all sampling and analyses performed for purposes of determining compliance with the requirements of Clause D.1.u.ii of this Section. Such records must, at a minimum, include:

(a). the dates and times product samples were taken and the dates the samples were analyzed;

(b). the names and qualifications of the persons taking the samples;

(c). a description of the methods and equipment used to take the samples;

(d). the name and address of the laboratory facility at which analyses of the samples were performed;

(e). a description of the analytical methods used, including any cleanup and sample preparation; and

(f). all laboratory analytical results used to determine compliance with the contaminant limits specified in this Subparagraph.

D.2. – O.2.c.vi. ...

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 10:496 (July 1984), LR 11:1139 (December 1985), LR 12:319 (May 1986), LR 13:84 (February 1987), LR 13:433 (August 1987), LR 13:651 (November 1987), LR 14:790 (November 1988), LR 15:181 (March 1989), LR 16:47 (January 1990), LR 16:217 (March 1990), LR 16:220 (March 1990), LR 16:398 (May 1990), LR 16:614 (July 1990), LR 17:362 (April 1991), LR 17:368 (April 1991), LR 17:478 (May 1991), LR 17:883 (September 1991), LR 18:723 (July 1992), LR 18:1256 (November 1992), LR 18:1375 (December 1992), amended by the Office of the Secretary, LR 19:1022 (August 1993), amended by the Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 20:1000 (September 1994), LR 21:266 (March 1995), LR 21:944 (September 1995), LR 22:813 (September 1996), LR 22:831 (September 1996), amended by the Office of the Secretary, LR 23:298 (March 1997), amended by the Office of Solid And Hazardous Waste, Hazardous Waste Division, LR 23:564 (May 1997), LR 23:567 (May 1997), LR 23:721 (June 1997), amended by the Office of Waste Services, Hazardous Waste Division, LR 23:952 (August 1997), LR 23:1511 (November 1997), LR 24:298 (February 1998), LR 24:655 (April 1998), LR 24:1093 (June 1998), LR 24:1687 (September 1998), LR 24:1759 (September 1998), LR 25:431 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:268 (February 2000), LR 26:2464 (November 2000), LR 27:291 (March 2001), LR 27:706 (May 2001), LR 29:317 (March 2003), LR 30:**.

Chapter 22. Prohibitions on Land Disposal

Subchapter A. Land Disposal Restrictions

§2223. Applicability of Treatment Standards

A. - H. ...

I. ~~—Zinc micronutrient fertilizers that are produced for the general public's use and that are produced from or contain recycled characteristic hazardous wastes (D004-D011) are subject to the applicable treatment standards in LAC 33:V.Chapter 22, Table 2.~~

J. Effective September 4, 1998, the treatment standards for the wastes specified in LAC 33:V.4901.D as EPA Hazardous Waste Numbers P185, P191, P192, P197, U364, U394, and U395 may be satisfied by either meeting the constituent concentrations presented in LAC 33:V.2299, Appendix, Table 2, Treatment Standards for Hazardous Wastes, of this Chapter or by treating the waste by the following technologies: combustion, as defined by the technology code CMBST in LAC 33:V.2299, Appendix, Table 3 of this Chapter, for nonwastewaters; and biodegradation as defined by the technology code BIODG, carbon adsorption as defined by the technology code CARBN, chemical oxidation as defined by the technology code CHOXD, or combustion as defined as technology code CMBST in LAC 33:V.2299, Appendix, Table 3 of this Chapter, for wastewaters.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 15:378 (May 1989), amended LR 16:1057 (December 1990), LR 17:658 (July 1991), LR 21:266 (March 1995), LR 22:22 (January 1996), LR 22:819 (September 1996), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:668 (April 1998), LR 24:1726 (September 1998), LR 25:443 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:280 (February 2000), LR 30:**.

§2299. Appendix – Tables 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Table 2. Treatment Standards for Hazardous Wastes

Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Regulated Hazardous Constituent		Wastewaters	Non-wastewaters
		Common Name	CAS ² Number	Concentration in mg/L ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/L TCLP" or Technology Code ⁴
* * *					
[See Prior Text in D001 ⁹ – D005 ⁹]					

Table 2. Treatment Standards for Hazardous Wastes

Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Regulated Hazardous Constituent		Wastewaters	Non-wastewaters
		Common Name	CAS ² Number	Concentration in mg/L ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/L TCLP" or Technology Code ⁴
D006 ⁹	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for cadmium based on the toxicity characteristic leaching procedure (TCLP) in SW846	Cadmium	7440-43-9	0.69 and meet LAC 33:V.2233 standards ⁸	0.11 mg/L TCLP and meet LAC 33:V.2233 standards ⁸
	Cadmium-Containing Batteries Subcategory (Note: This subcategory consists of nonwastewaters only.)	Cadmium	7440-43-9	NA	RTHRM
	<u>Radioactively contaminated cadmium-containing batteries</u> (Note: This subcategory consists of nonwastewaters only.)	<u>Cadmium</u>	<u>7440-43-9</u>	<u>NA</u>	<u>Macroencapsulation, in accordance with LAC 33:V.2230</u>
* * *					
[See Prior Text in D007 ⁹ - D008 ⁹]					
D009 ⁹	Nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the toxicity characteristic leaching procedure (TCLP) in SW846; and contain greater than or equal to 260 mg/kg total mercury that also contain organics and are not incinerator residues (High Mercury-Organic Subcategory)	Mercury	7439-97-6	NA	IMERC; OR RMERC

Table 2. Treatment Standards for Hazardous Wastes

Waste Code	Waste Description and Treatment/Regulatory Subcategory¹	Regulated Hazardous Constituent		Wastewaters	Non-wastewaters
		Common Name	CAS² Number	Concentration in mg/L³; or Technology Code⁴	Concentration in mg/kg⁵ unless noted as "mg/L TCLP" or Technology Code⁴
	Nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the toxicity characteristic leaching procedure (TCLP) in SW846; and contain greater than or equal to 260 mg/kg total mercury that are inorganic, including incinerator residues and residues from RMERC (High Mercury-Inorganic Subcategory)	Mercury	7439-97-6	NA	RMERC
	Nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the toxicity characteristic leaching procedure (TCLP) in SW846; and contain less than 260 mg/kg total mercury and that are residues from RMERC only (Low Mercury Subcategory)	Mercury	7439-97-6	NA	0.20 mg/L TCLP and meet LAC 33:V.2233 standards ⁸

Table 2. Treatment Standards for Hazardous Wastes

Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Regulated Hazardous Constituent		Wastewaters	Non-wastewaters
		Common Name	CAS ² Number	Concentration in mg/L ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/L TCLP" or Technology Code ⁴
	All other nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the toxicity characteristic leaching procedure (TCLP) in SW846; and contain less than 260 mg/kg total mercury and that are not residues from RMERC (Low Mercury Subcategory)	Mercury	7439-97-6	NA	0.025 mg/L TCLP and meet LAC 33:V.2233 standards ⁸
	All D009 wastewaters	Mercury	7439-97-6	0.15 and meet LAC 33:V.2233 standards ⁸	NA
	Elemental mercury contaminated with radioactive materials (Note: This subcategory consists of nonwastewaters only.)	Mercury	7439-97-6	NA	AMLGM
	Hydraulic oil contaminated with Mercury Radioactive Materials Subcategory (Note: This subcategory consists of nonwastewaters only.)	Mercury	7439-97-6	NA	IMERC
	<u>Radioactively contaminated mercury-containing batteries (Note: This subcategory consists of nonwastewaters only.)</u>	<u>Mercury</u>	<u>7439-97-6</u>	<u>NA</u>	<u>Macroencapsulation, in accordance with LAC 33:V.2230</u>

Table 2. Treatment Standards for Hazardous Wastes

Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Regulated Hazardous Constituent		Wastewaters	Non-wastewaters
		Common Name	CAS ² Number	Concentration in mg/L ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/L TCLP" or Technology Code ⁴
* * *					
[See Prior Text in D010 ⁹]					
D011 ⁹	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for silver based on the toxicity characteristic leaching procedure (TCLP) in SW846	Silver	7440-22-4	0.43 and meet LAC 33:V.2233 standards ⁸	0.14 mg/L TCLP and meet LAC 33:V.2233 standards ⁸
	<u>Radioactively contaminated silver-containing batteries</u> (Note: This subcategory consists of nonwastewaters only.)	<u>Silver</u>	<u>7440-22-4</u>	<u>NA</u>	<u>Macroencapsulation, in accordance with LAC 33:V.2230</u>
* * *					
[See Prior Text in D012 ⁹ -U411]					

Footnotes 1. - 12. ...

Tables 3. - 12. ...

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 16:1057 (December 1990), amended LR 17:658 (July 1991), LR 21:266 (March 1995), LR 22:22 (January 1996), LR 22:834 (September 1996), LR 23:566 (May 1997), LR 24:301 (February 1998), LR 24:670 (April 1998), LR 24:1732 (September 1998), LR 25:451 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:282 (February 2000), LR 27:295 (March 2001), LR 29:322 (March 2003), LR 30:**.

Chapter 41. Recyclable Materials

Subchapter C. Special Requirements for Group III Recyclable Materials**§4139. Recyclable Materials Used in a Manner Constituting Disposal**

A. - A.2. ...

a. the recyclable materials have undergone a chemical reaction in the course of producing the products so as to become inseparable by physical means; and

b. such products meet the applicable treatment standards in LAC 33:V.Chapter 22.Subchapter B (or applicable prohibition levels in LAC 33:V.2209 or 2213, where no treatment standards have been established) for each recyclable material (i.e., hazardous waste constituent) that they contain; ~~and~~

~~c. the product does not exhibit a characteristic of a hazardous waste as specified in LAC 33:V.4903.~~

~~3. Zinc-containing fertilizers using hazardous waste K061 that are produced for the general public's use are not presently subject to regulation.~~

~~4. Commercial fertilizers that are produced for the general public's use that contain recyclable materials also are not presently subject to regulation provided they meet these same treatment standards or prohibition levels for each recyclable material that they contain.~~

3. Fertilizers that contain recyclable materials are not subject to regulation provided that:

a. they are zinc fertilizers excluded from the definition of *solid waste* according to LAC 33:V.105.D.1.u; or

b. they meet the applicable treatment standards in LAC 33:V.2223 for each hazardous waste that they contain.

45. Anti-skid/de-icing uses of slags, which are generated from high temperature metals recovery (HTMR) processing of hazardous wastes K061, K062, and F006, in a manner constituting disposal are not covered by the exemption in Paragraphs A.2-~~4~~ and 3 of this Section and remain subject to regulation.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 11:988 (October 1985), amended LR 11:1139 (December 1985), LR 15:378 (May 1989), LR 16:220 (March 1990), LR 17:367 (April 1991), LR 17:658 (July 1991), LR 20:1000 (September 1994), LR 22:21 (January 1996), repromulgated LR 22:100 (February 1996), amended LR 23:566 (May 1997), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1743 (September 1998); amended by the Office of Environmental Assessment, Environmental Planning Division, LR 30:**.